We take our water for granted until the well runs dry.

Ben Franklin

OUTLINE OF PRESENTATION

 VALUES OF PETENWELL AND CASTLE ROCK FLOWAGES

PISSUES OF PETENWELL AND CASTLE ROCK FLOWAGES

PETENWELL AND CASTLE ROCK STEWARDS (PACRS)

- 2nd and 5th largest lakes in Wisconsin
- What brings us to the water??
- Family vacations
- Weekend get away
- Fishing
- Swimming
- Camping
- Sailing
- Water skiing
- Whatever the reason, lake users are concerned about water quality.





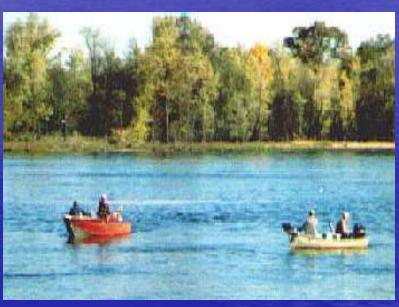






















Todd Forcier, Forcier's Guide Service, LLC.







Courtesy of Musky Mark's Fishing guide















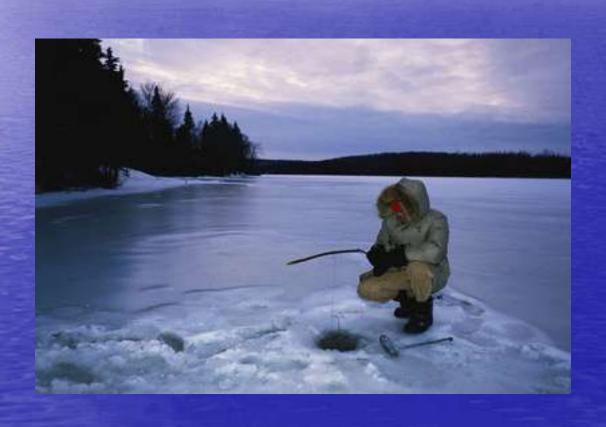
Courtesy of

Nekoosa Walleye Days 2010































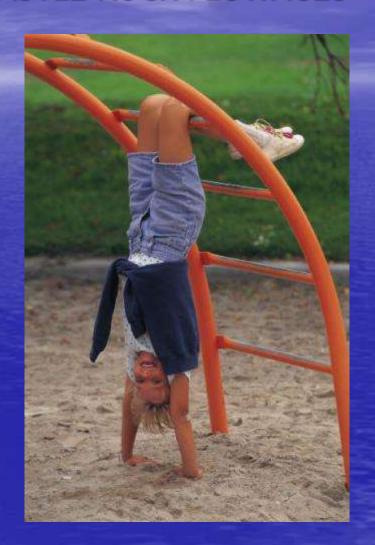












- 500 Lake Petenwell, Adams Co
- 200 Castle Rock , Adams Co
- 300 Castle Rock, Juneau Co
- 133 Lake Petenwell, Juneau Co
- 57 Buckhorn State Park
- 1190 Total Campsites













Buckhorn State Park



- Impaired water quality
- Loss of recreational use
- Decline of property value and tax revenue
- Negative impact on business tourism

"What's this green like paint that floated into the marina last weekend"

Barnum Bay Sailor



ISSUES OF ROCK FLOWAGES PETENWELL AND CASTLE







" What's all this green?"
Researcher/Sailor from NOAA





When can we expect it?

- Blue Green algae
- Blooms can occur when water is warm and nutrient rich
- Can be concentrated due to wind direction
- Usually mid June through late September

Impaired water quality



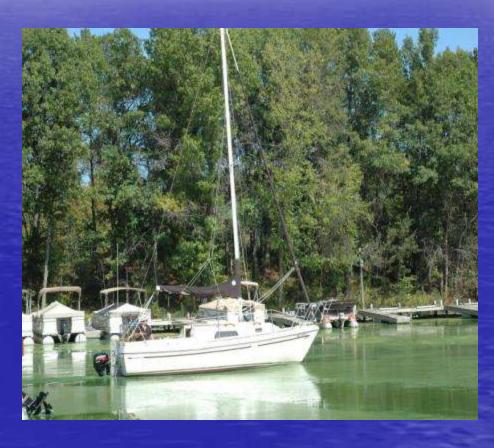


Impaired water quality

Loss of recreational use









Decline of property value and tax revenue



Decline of property value and tax revenue

ISSUES OF PETENWELL AND CASTLE ROCK FLOWAGES

Decline of property value and tax revenue



Negative impacton business –tourism

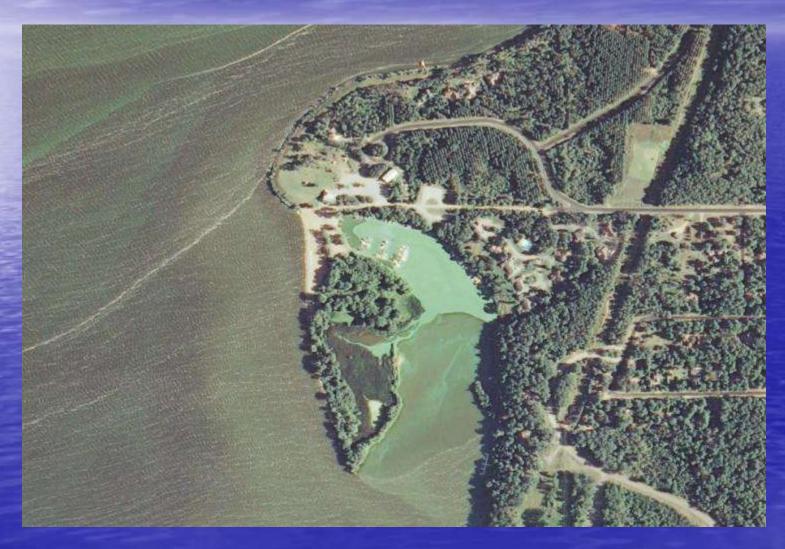


Marina Built 1985

- Barnum Bay Marina
- 60 slips
- 100% filled within 2 yrs
- Added 10 slips in 1987



ISSUES OF PETENWELL AND CASTLE ROCK FLOWAGES



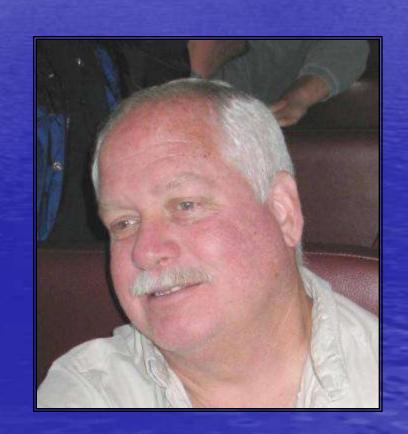
Negative impact on business – tourism

"There used to be a waiting list to get a slip in my marina.

Now it's tough to get it half full. "

Tom Koren, Owner

[Annual Barnum Bay Marina boat slip fee = \$800]



" People rent out boats months in advance, so when they show up and there's an algae bloom, they're surprised, and they leave. You can't blame them. But \$200 lost for a boat rental, \$50 lost in gas and oil, plus no dinner and drinks afterward...I might be out \$350. It all adds up."

Tom Koren

"My business could be doubled if the green wasn't here. People keeping boats at my marina used to call up prior to coming out here and ask whether or not an algae bloom was on. Now, they call and ask me how bad the algae is. " Tom Koren, owner











Others who have been negatively impacted

Boaters Comment

"This past weekend, the harbor at Barnum Bay was unbearable. Getting to the gas pump was truly a gut-wrenching experience. The smell was overwhelming, and with a southeast breeze it blew up the shore into the Bay. The lake itself was pretty nasty. Yikes!! And last weekend's algae bloom was the worst many had every seen."

Mark Weiland August 6, 2007

Racine, Wi

ISSUES OF PETENWELL AND CASTLE ROCK FLOWAGES



Petenwell Park



Vacation Plans Nixed

"I had my Petenwell lake home rented for a week to a family from Canada. When they arrived, they were so disappointed in the smell off the bay and the yucky water, they didn't even unpack"

Disappointed Owner

Petenwell Sport Shop

"The wonderful aroma was so bad, we couldn't even open the windows."

"People at the park were cutting their vacations short do to the stink"

"People were buying disinfectants and medications because kids were sick"

Sue Garman, owner

"If these lakes were clean, we would have the best natural recreational area in the state"

Bay Rest Restaurant customer

"People would get out of their car, breath the air, and just get back in their car and leave. It really hurts business"

Bay Rest Employee

Tom Dorsey, owner of the Bay Rest Resort:

"I'm a taxpayer, and employ 13 people. I'm trying to keep my people employed, but this algae and economy has hurt our business on Petenwell and Castle Rock."

"The number two waterway in Wisconsin—26,000 acres of water should somehow get some attention. It just seems to be being ignored—that's the best way that I can explain it."

Tom Dorsey owner Bay Rest

"As a business owner, I've had people get a cabin and check in, unload, and then leave after two days because the algae is so bad."

Tom Dorsey

"It was the topic of conversation. The wake behind a boat was nasty."

- " A lot of people stayed away because it was so bad"
- " I had my cottage rented, they left the first day the lake smelled so bad"

Jeff Patterson, owner Petenwell Pub

- Don and Donna Hurta, owners of Slip Inn:
- "In our back bay, it's like pea soup. You put your boat in it, and it sticks like paint."
- "If you can clean up Lake Erie, you can clean this up."
- "Our business is down, fishing is down. When customers come up here and rent lodging and a boat, buy gas, and food, and then they go out on the lake and it's green—what do you tell them?"

Carlson's Rustic Ridge Beach with no algae present on Castle Rock Lake



"When the algae blooms are present, my revenues are down 25%. One less boat per weekend is one less table for dinner and drinks."

Rick Carlson, Owner Carlson

Rustic Ridge







I've seen kids run out of the car, down to the beach, stop, and go back to the car."

Rick Carlson, Owner of Rustic Ridge

- Greg Van Meter, user of the lakes:
- I don't know what to say about it—I
 want to take my grandkids fishing, but I
 can't. ...We're smarter than this."

"For those of you who may be unfamiliar with blue-green algae, to put it bluntly, it stinks"

Former Senator Russ Feingold



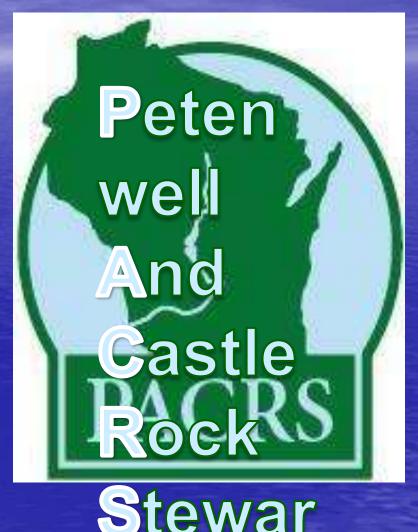
www.pacrs.org

PETENWELL AND CASTLE ROCK STEWARDS (PACRS)



PETENWELL AND CASTLE ROCK STEWARDS

- Partners
- Mission Statement
- Membership
- Goals
- 5 year plan
- Accomplishments



Stewar

Technical Advisors

- Department of Natural Resources
- Land Water Conservation /Juneau & Adams
 Counties
- River Alliance of Wisconsin
- Wisconsin River Power Company
- Midwest Environmental Advocates
- UW Extension
- UW Stevens Point
- NOAA

Teamwork between agencies















We Save Rivers

WHAT WE DO

- Advocate for Wisconsin's rivers and watersheds.
- Develop the ability of citizens and grassroots groups to organize their passion for rivers.
- Partner with, when appropriate, and challenge, when necessary, the government agencies entrusted with protecting rivers.
- Bring people to rivers to experience their beauty and understand threats to them.

WISCONSIN RIVER INITIATIVE

Advocate and organize to restore Wisconsin's "Mother River":

- Coordinate focused, concerted action to reduce phosphorus pollution.
- Ensure that hydro dams implement river protection obligations of their federal licenses.
- Support the work of local watershed and river friends groups in the Wisconsin River basin.
- Align the efforts of agencies, organizations, and groups in the Lower Wisconsin River basin to prevent the introduction and spread of aquatic invasive species.

River Alliance has supported (and has been supported by) the PACRS since 2007

- Provided technical assistance, political strategy, advice on forming the organization (nonprofit status, fundraising, bylaws, board development)
- Helped organize events to raise the profile of phosphorus pollution in the Wisconsin River
 - Wisconsin River 101 (summer '07, '09)
 - Pontoons and Politics (Aug '08)
 - Politics of Phosphorus conference (Nov '09)
- Assisted with PACRS outreach efforts
 (website, content and promotional brochures)

The Petenwell and Castle Rock Stewards (PACRS) coordinate and facilitate a diverse group of people focused on improving the water quality and the fishery of the Petenwell and Castle Rock flowages of the Wicconcin Divor



We are now recognized by the state of Wisconsin as a negregit organization. We have developed bylaws, including memberal ep details.

Roc

k

Membership Drive

- 28 Property Owners' Associations
- Local Businesses
- Local Clubs
 - Snowmobile
 - ATV
 - Fishing



fundraising

Jars on Bars
Snowmobile Poker Run
Ideas????



Attended and spoke at public DNR hearings at Wausau, Appleton and Eau Claire to support proposal to reduce phosphorus runoff from agricultural fields.

Results: phosphorus runoff limits established in September 2010.

Listening Sessions with former
 Senator Russ Feingold and
 Representative Tom Petri



PACRS communicating with Congressman Petri

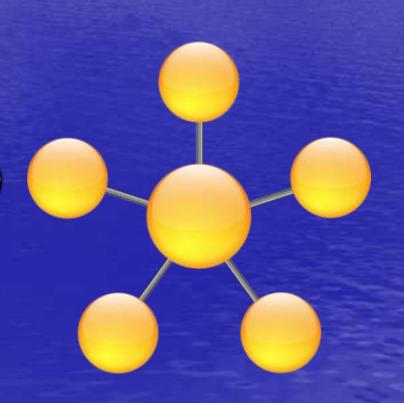


Local agencies and federal policy makers communicating



ACCOMPLISHMENTS – Linking Wisconsin River Citizen Groups

- Lake Wisconsin
- Stewards of the Dells
- PACRS
- Friends of Mill Creek
- Big Eau Pleine (BEPCO)



ACCOMPLISHMENTS - Networking

- Lake Leaders Institute UW Extension
 - Representatives from 18 lakes

WHAT HAPPENS ON THE LAND AFFECTS OUR LAKES

Pontoons and Politics









Pontoons and Politics



Politicians in attendance: Former Representative Marlin Schneider, Senator Julie Lassa, Mark Seitz (from Congressman Ron Kind's office)

Pontoons and Politics



PONTOON AND POLITICS



FEDERAL AND STATE POLICY-MAKERS COMMUNICATING

RESULTS OF PONTOON AND POLITICS

 Funding to WDNR to implement a study for the purpose of establishing Total Maximum Daily Loads for the Upper Wisconsin River.



•Conducted four public sessions to educate the public about water quality and river management issues.



Wisconsin River 101





TOURED NEENAH PAPER COMPANY
 WASTE WATER TREATMENT FACILITY

LEARNED ABOUT POINT SOURCES AND WHAT EFFORTS
 ARE TAKEN TO REDUCE PHOSPHORUS

- Along with Friends of Mill Creek, PACRS toured watershed in Portage and Wood Counties.
- •Learned current Best Management Practices (BMP) regarding field drainage.







PACRS Tour 400 Cow Dairy Operation

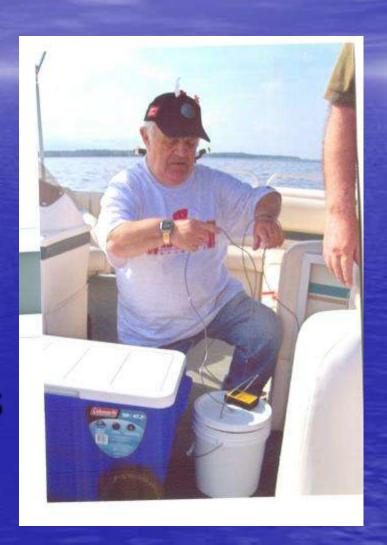
WATER QUALITY MONITORING FOR TMDL DATA

Secchi Disk training provided by Adams County Land & Water Conservation.

- Monitoring efforts May 2010 Sept.2010 every two weeks
- 19 volunteers
 22 Lake Petenwell sites
 14 Castle Rock Lake sites
 Collaboration with UWSP



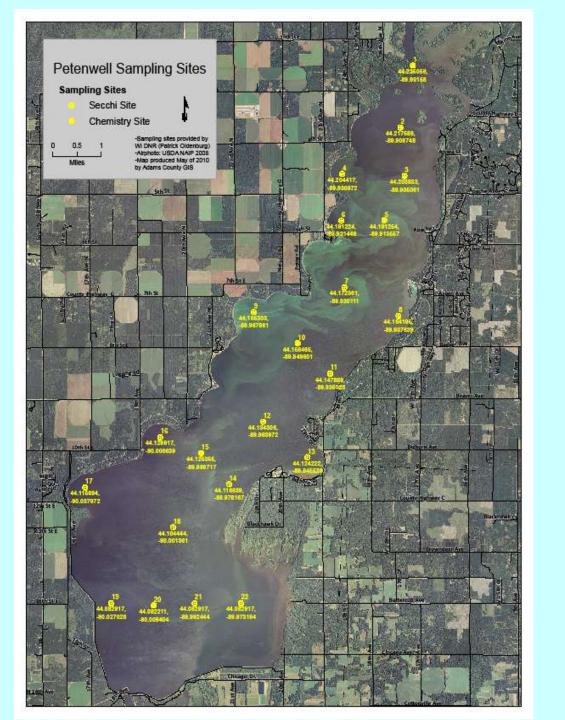
- Secchi Disc readings
- Recorded Data
- Water Temperature
- Secchi Depths
- Air Temperature
- Collected water samples

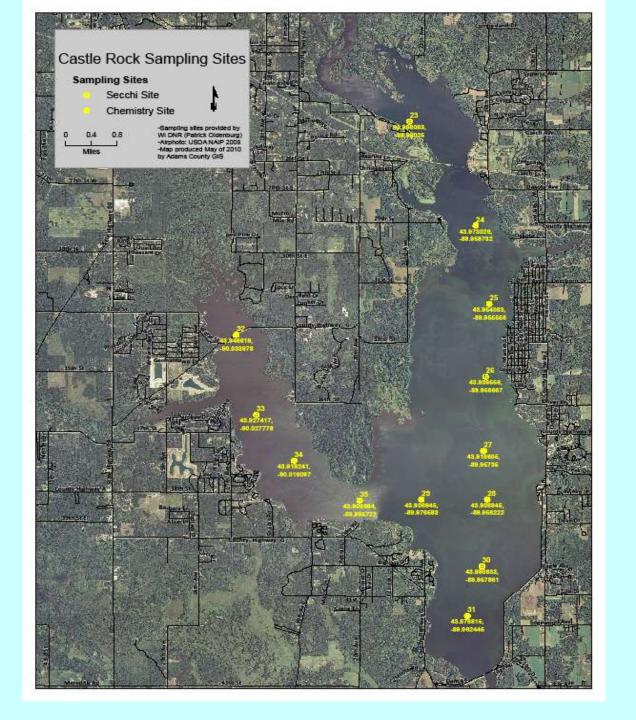












National Oceanic Atmospheric Administration Algae Sampling and Identification Project









Microscopes and training provided by NOAA

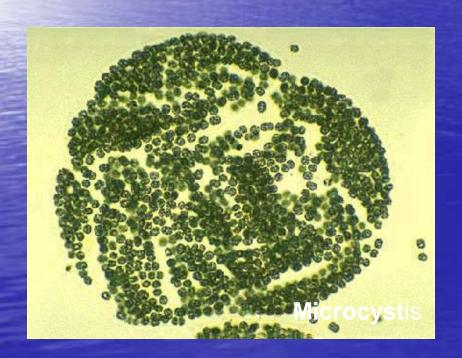






Potentially Toxic BlueGreen Algae....

Top 3 bacteria found in 2010







Blue Green Algae Results by PACRS volunteers

- 64 samples collected
- 63 samples contained blue-green algae
- Microsystis 46.9% of samples
- Oscillatoria 32.8 % of sample
- Aphanizomenon 25.0% of samples

Total volunteer time 343.5 hrs8 boats

Thank you volunteers

Results of Water Quality Monitoring for TMDL Data and National Oceanic Atmospheric **Administration Algae Sampling and** Identification Project can be found at display table.

Next on the Horizon

Economic Impact Study



Economic Impact Study Blue-Green Algae Affect

- Juneau and Adams County partnership.
- Discussions with UW Madison Economics Dept



PETENWELL AND CASTLE ROCK STEWARDS (PACRS)

"Never doubt that a small group of thoughtful committed citizens can change the world:

Indeed, it's the only thing that ever has."

Margaret Mead



PETENWELL AND CASTLE ROCK STEWARDS (PACRS)

PACRS BOARD MEMBERS

Barb Baker Bruce Carlson Scott Bordeau Curtis Frost Gerry Ganther Rick Georgeson Wayne Gjersvig Tom Koren Carol Lyman Ron Lyman Gail Rollins Chris Turok Ron VonHaden



